

U.S. Department of Agriculture National Agricultural Statistics Service (NASS) Oregon Field Office

Oregon Hazelnut Production Forecast

August 26, 2010



Quick Facts about the 2010 Hazelnut Objective Yield (HOY) Survey

- Total sample size = 180 samples
 - 1 sample = 1 orchard
 - 2 trees per orchard
 - •90 samples carried from last year
 - •90 samples painted this year
 - Of the 180 samples, 176 were usable
- Total nuts picked = 70,805
 - Of those, 15,851 were sub-sampled
 - 77.7% of sub-sampled nuts were good (12,316 nuts)



• Sampling stage: nuts are counted and sub-sampled



• Peeling stage: leaves are peeled away from the shell



• **Sizing stage:** nuts are passed through the smallest possible sizing hole



 Cracking and weighing: This is where good nuts are separated from defective nuts. Good nuts are weighed, defective nuts discarded.



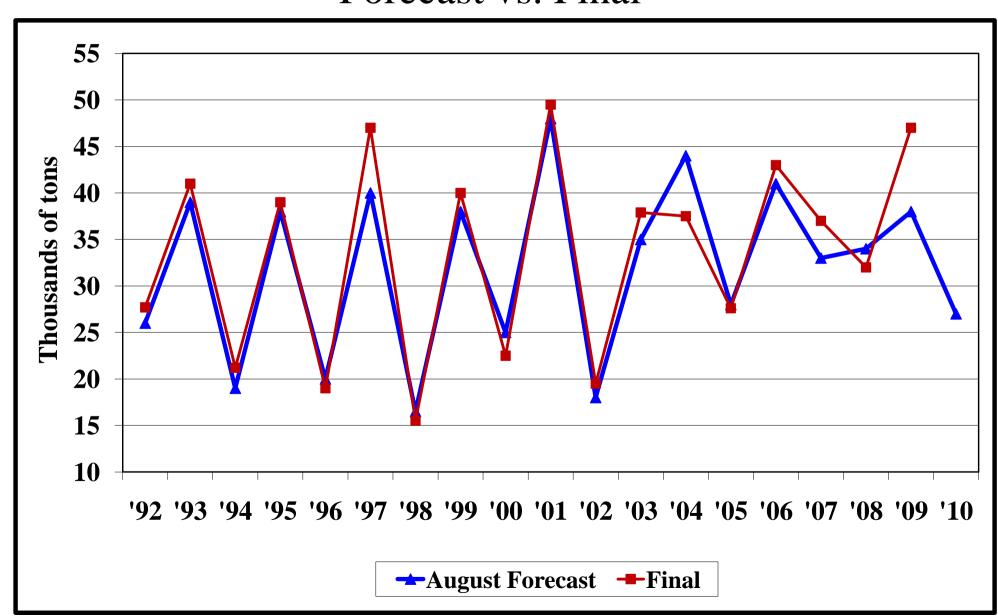
Oregon Hazelnut Production -Released August 24, 2010-

2006	2007	2008	2009	2010 forecast	Pct. Chg.
Tons	Tons	Tons	Tons	Tons	Pct.
43,000	37,000	32,000	47,000	27,000	-43

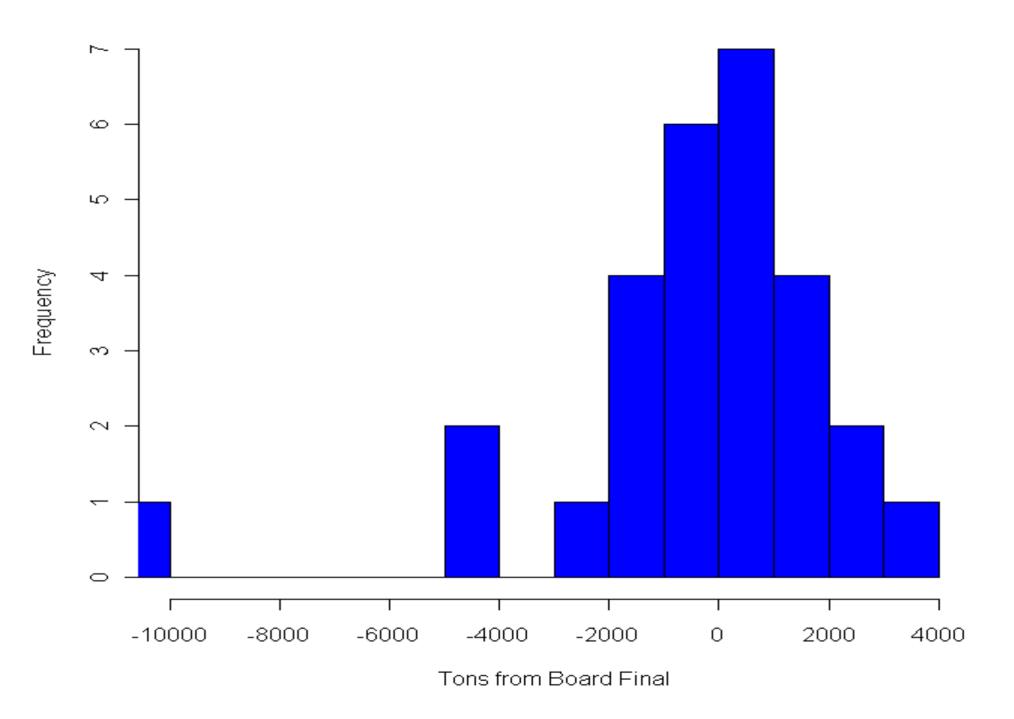


Hazelnut Production

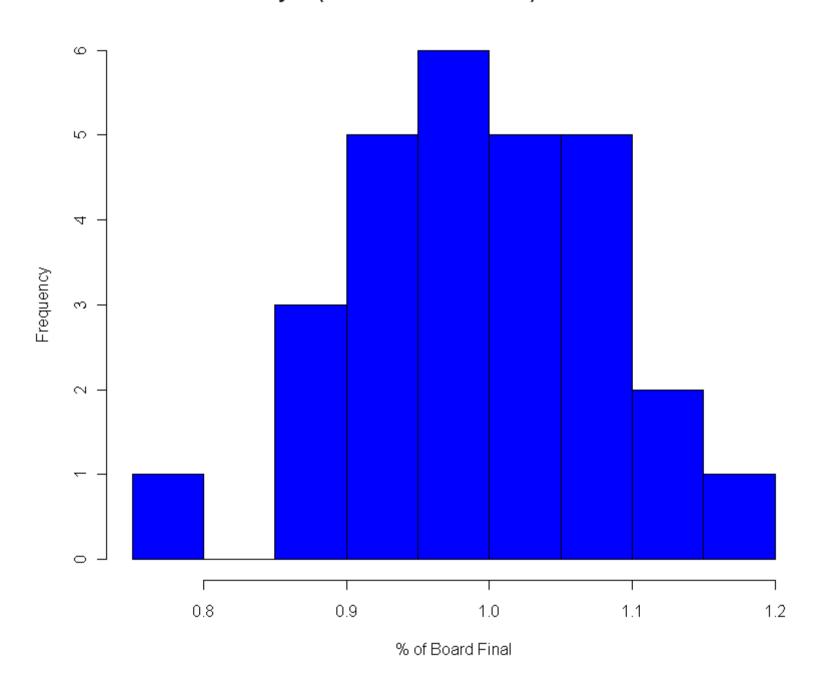
Forecast vs. Final



History of (Prediction - Board Final) from 1982-2009



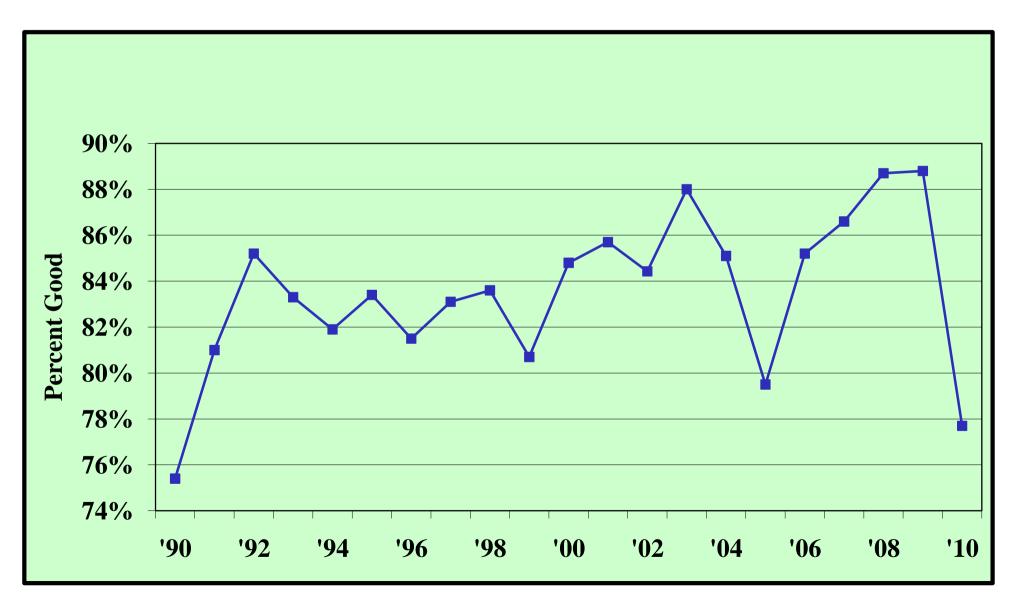
History of (Prediction/Board Final) from 1982-2009





Percentage Good Nuts

Hazelnut Objective Yield Lab





Example of a good nut

Defective Nuts

- A nut is considered defective if there is no possibility of maturing into a healthy nut:
 - White and mushy inside with no nut
- Brown stain nuts are like chocolate inside, with no nut at all
 - Nut is shriveled like a raisin
 - Nut is concave/sunken/dimpled
 - Nut is immeasurably small
 - Size threshold for good nuts: If one could recognize with the naked eye that the nut is a healthy shape (none of the traits listed above)
 - In all size groups, the nut in the shell was sometimes very tiny.
 These were counted as good nuts if they could potentially mature even for a late harvest.





 Example of milky white contents with no nut

Example of a concave nut



More concave nuts



Example of a nut with brown stain

Results of 2010 Lab Sampled Nuts

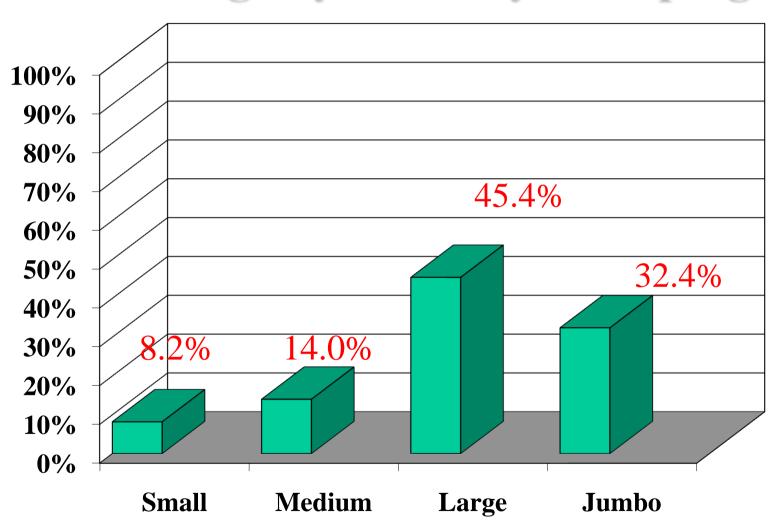
Lab Size Group	Good Nuts Sampled	Defective Nuts Sampled	Brown Stain Nuts	Percent Defective	Industry Size Groups
Size 1	49	130	0	72.6 %	Small
Size 2	955	485	4	33.7 %	Small
Size 3	1,725	539	6	23.8 %	Medium
Size 4	1,865	487	11	20.7 %	Large
Size 5	2,288	620	12	21.3 %	Large
Size 6	1,440	334	13	18.8 %	Large
Size 7	1,611	411	9	20.3 %	Jumbo
Size 8	2,383	529	23	18.2 %	Jumbo
Totals	12,316	3,535	78	22.3 %	

Brown stain count is included in defective nuts

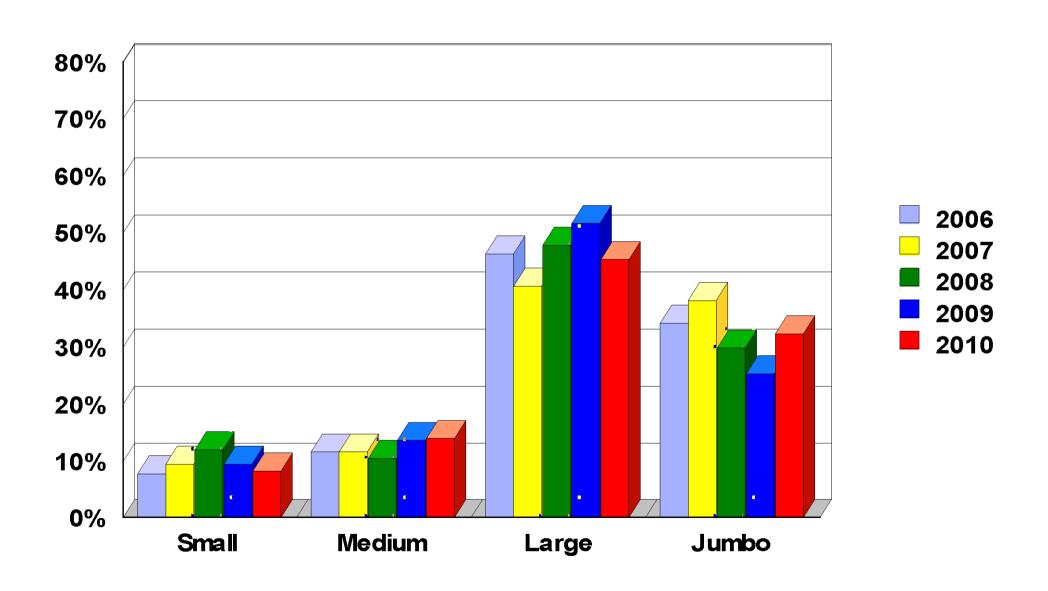
Total nuts sampled = 15,851

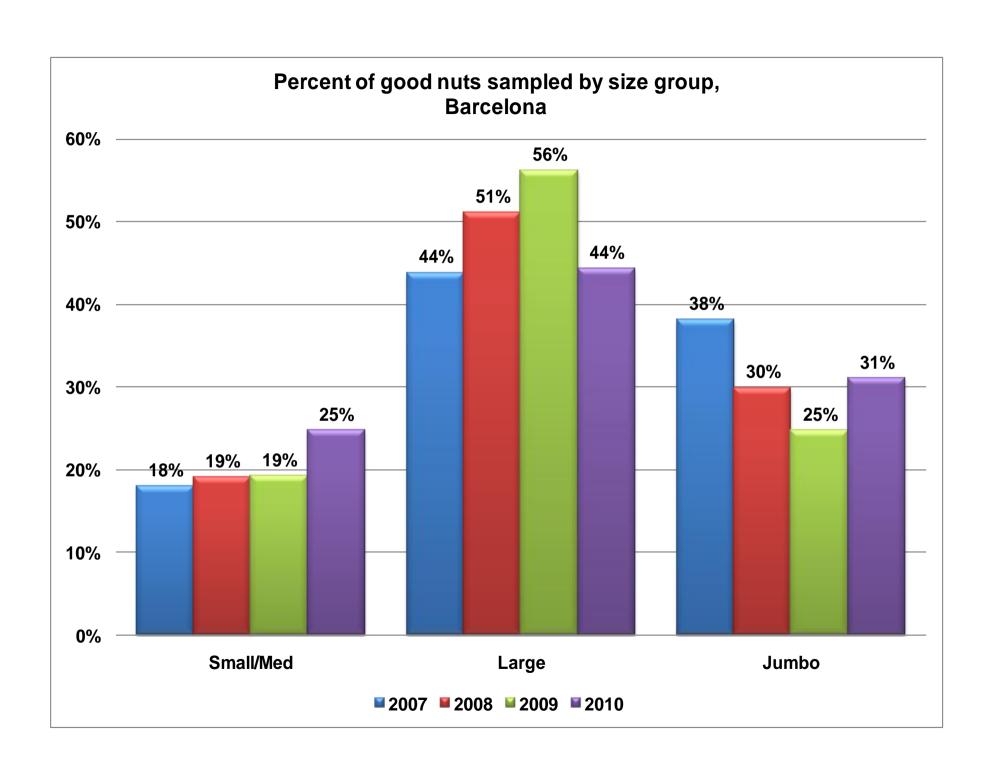


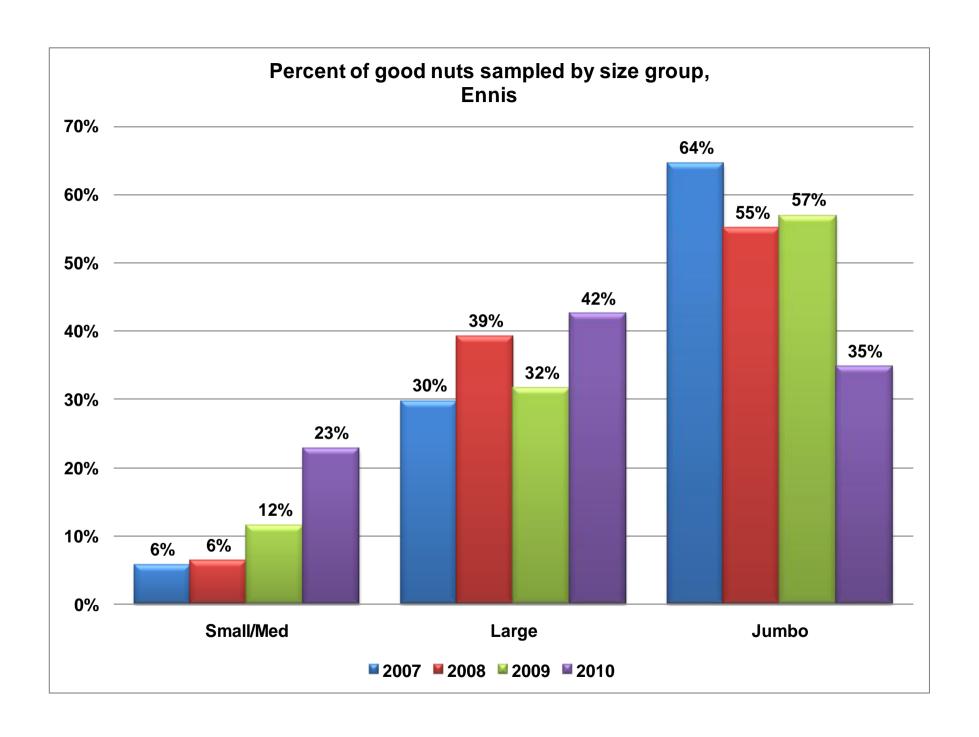
2010 Good Nut Production Percentage by Industry Groupings



Percentage of Good Nuts by Size Group, 2006-2010



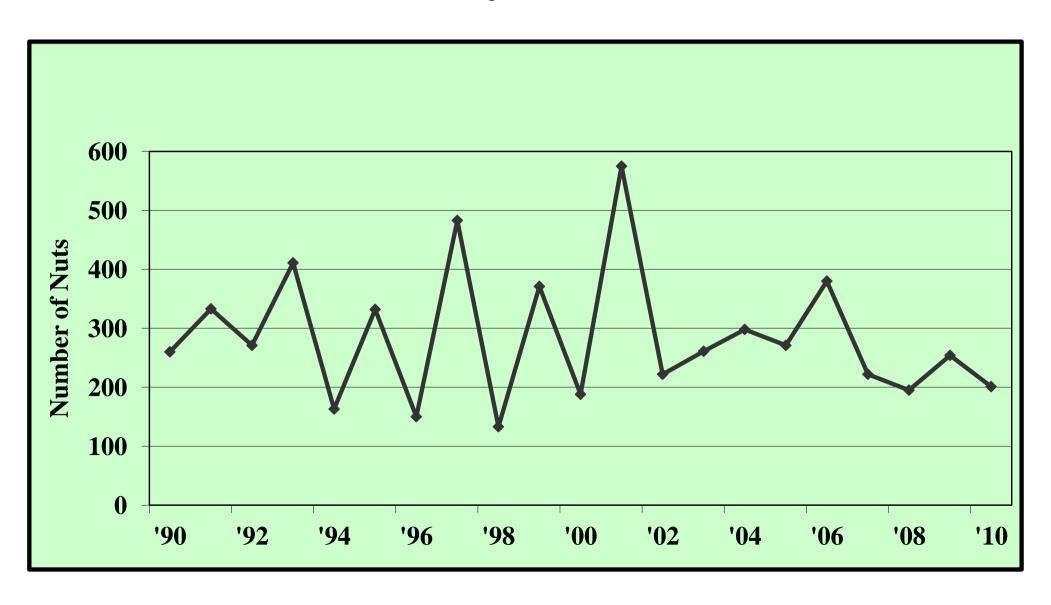


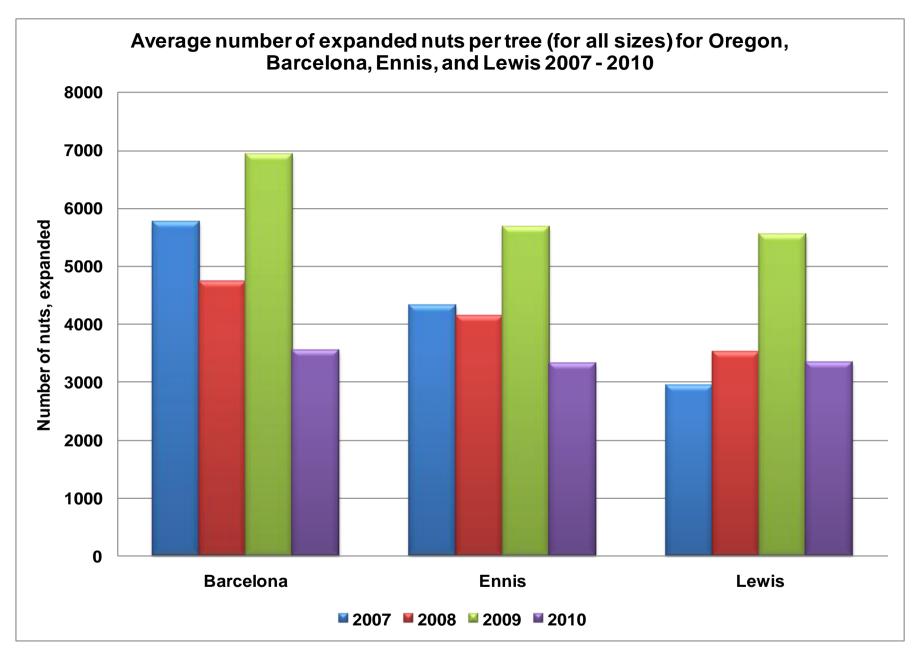




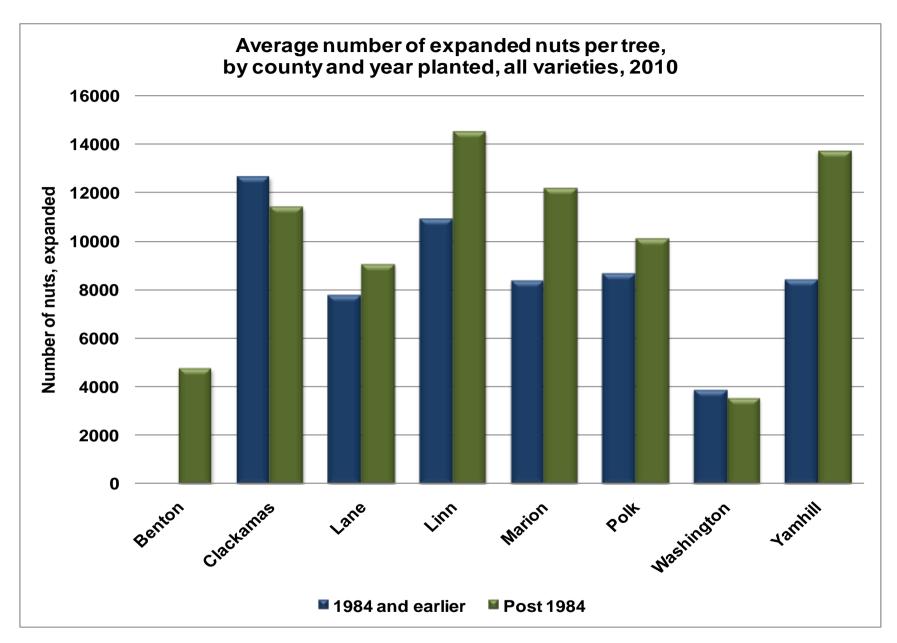
Nuts Picked Per Tree

Hazelnut Objective Yield Lab





1/ The average number of nuts per tree is a calculation. It is the number of good nuts sampled per tree expanded by the number of terminal and primary limbs recorded from each tree.

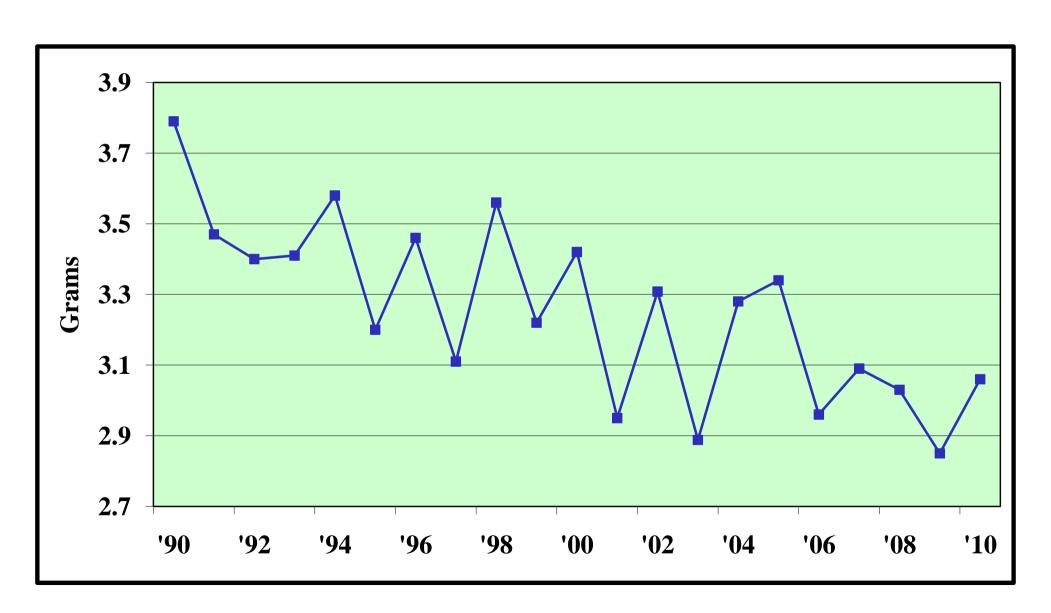


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Dry Weight per Good Nut

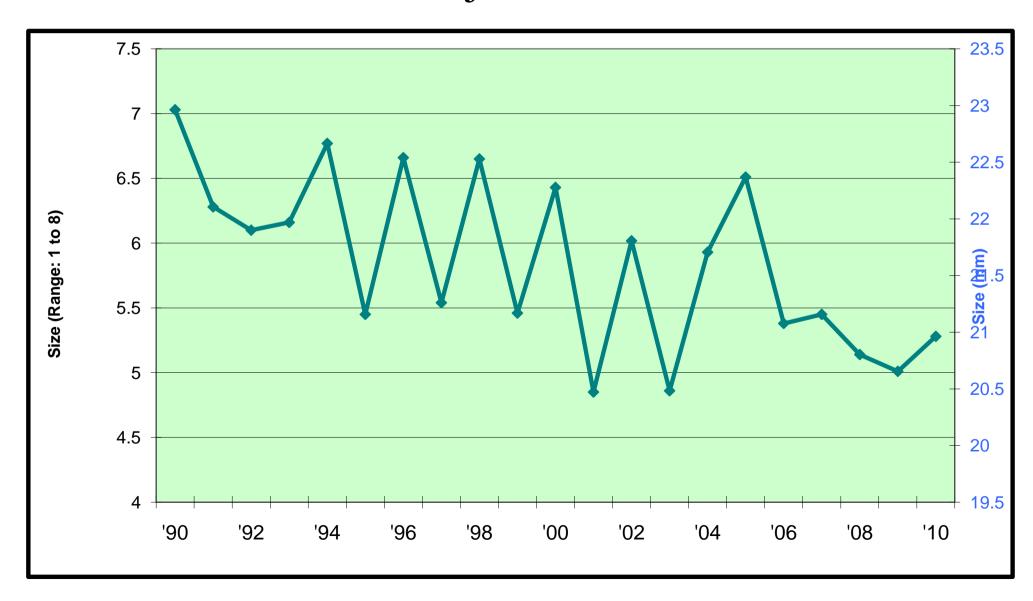
Hazelnut Objective Yield Lab





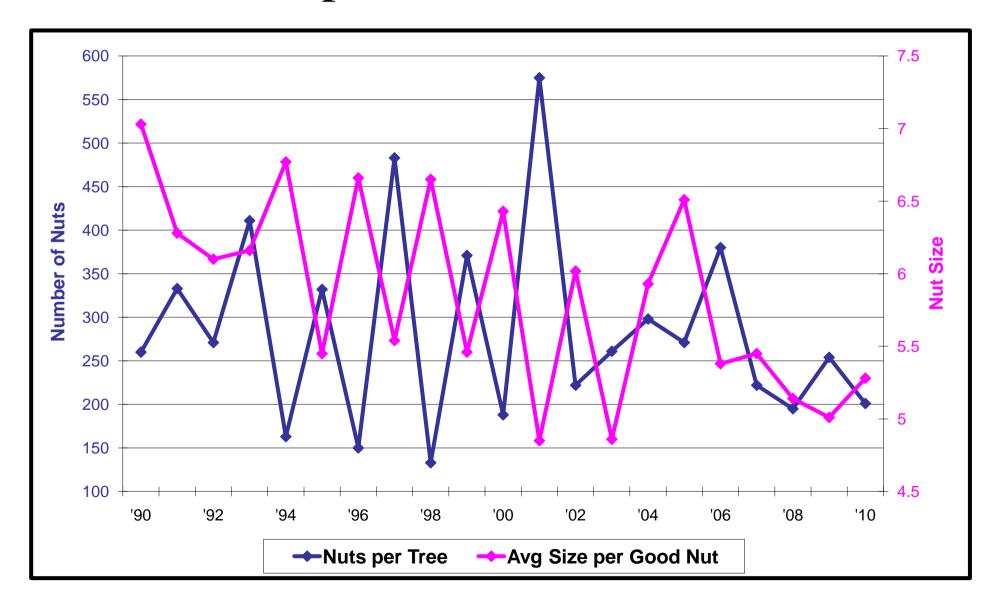
Average Nut Size

Hazelnut Objective Yield Lab





Nuts per Tree vs. Nut Size



Thank You

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